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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

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To: All Concerned

Plant: Oak Ridge Gaseous Diffusion

Date: July 25, 1958

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Subject: Revised Uranium Accounting Codes

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KP-1459

Reporting codes and isotopic assay class ranges for uranium materials have been revised. The normal assay range balance has been extended from 0.7115 per cent to cover materials between 0.6900 per cent to 0.7199 per cent, inclusive. A revised tabulation of assay classes is shown in table 1. Assay prefix reporting codes are shown in table 2. In this table, it will be noted that the only change is to provide a prefix code break point at 3.5 per cent assay. This has been done to supplement nuclear safety considerations in the use of varying uranium hexafluoride shipping container sizes. The effective date for adopting these revised assay class ranges and prefix codes is July 30, 1958.

The number of material description suffix codes has been greatly reduced. A list of uranium and uranium contaminated materials is shown in table 3, together with the numerical index assigned to each. The effective date for adopting these revised suffix codes is July 30, 1958. Any suggested modifications to the list as shown in table 3 should be forwarded to the writer in sufficient time to permit their inclusion by the effective date.

Because of the extensive changes made by these revisions, the careful cooperation of all concerned is requested in the preparation of reports which involve the revised codes. If needed, additional lists may be obtained from the Uranium Accounting office upon request.

Union Carbide Nuclear Company, Oak Ridge Gaseous Diffusion Plant, Operating Contractor for the U.S. Atomic Energy Commission.

JAP:WDM:ag

Attachments (3)

Classification changed to: Unclassified
(level and category)

By authority of: CG-PGD-4
(classification guide)

ADD or ADD signature (first reviewer)

Date

ADD signature (final reviewer)

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for A. Schmitt
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TABLE I

ASSAY CLASSES

EFFECTIVE: July 30, 1958

<u>Class</u>	<u>Assay Range</u>
A	00.000 and under 00.500
B	00.500 and under 00.690
C	00.690 and under 00.720
D	00.720 and under 01.000
E	01.000 and under 05.000
F	05.000 and under 25.000
G	25.000 and under 75.000
H	75.000 and under 100.000

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TABLE 2

ASSAY RANGES

EFFECTIVE: July 30, 1958

1	00.000 and under 00.200
2	00.200 and under 00.300
3	00.300 and under 00.400
4	00.400 and under 00.500
5	00.500 and under 00.600
6	00.600 and under 00.690
7	00.690 and under 00.720
8	00.720 and under 01.000
9	01.000 and under 02.000
10	02.000 and under 03.500
11	03.500 and under 05.000
12	05.000 and under 10.000
13	10.000 and under 15.000
14	15.000 and under 20.000
15	20.000 and under 25.000
16	25.000 and under 30.000
17	30.000 and under 35.000
18	35.000 and under 40.000
19	40.000 and under 45.000
20	45.000 and under 50.000
21	50.000 and under 55.000
22	55.000 and under 60.000
23	60.000 and under 65.000
24	65.000 and under 70.000
25	70.000 and under 75.000
26	75.000 and under 80.000
27	80.000 and under 85.000
28	85.000 and under 90.000
29	90.000 and under 93.000
30	93.000 and under 95.000
31	95.000 and under 100.000

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TABLE 3
SUFFIX CODES FOR SS MATERIALS
EFFECTIVE: July 30, 1958

Suffix Code Number	Chemical Formula	Chemical Compound Name
10	UO_3	Uranic Oxide
11	UF_4	Uranium Tetrafluoride (Received from Off Area)
12	U_3O_8	Urano-Uranic Oxide
13		Ore Concentrates
17	UO_2	Uranous Oxide
18		Vacuum System Material (Oxides 1131-1413)
19		Fluorination Ash
20		Feed Plant Scrap
21		Barrier Tubes
22	UF_4	Uranium Tetrafluoride (Produced)
23	Ash (UX-1)	Feed Plant Ash
24	UF_6	Uranium Hexafluoride (Feed Manufacture)
25	UF_6	Virgin UF_6
26	UF_6	Uranium Hexafluoride (Cascade)
27	UF_6	Uranium Hexafluoride (K-1420 Conversion)
28	UF_6	Uranium Hexafluoride (Special Withdrawal)
29		Coolant and UF_6
30	U	U Metal
31	UCl_4	Uranium Tetrachloride
32	UCl_3	Uranium Chloride
33	UCl_5	Uranium Pentachloride
34	$UO_2(NO_3)_2 \cdot 6H_2O$	Uranyl Nitrate
35	UF_5	Uranium Pentafluoride

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Suffix Code Number	Chemical Formula	Chemical Compound Name
36	$\text{UO}_2\text{SO}_4 \cdot 3\text{H}_2\text{O}$	Uranyl Sulphate
37	$\text{UO}_2(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 2\text{H}_2\text{O}$	Uranyl Acetate
38	$\text{UO}_2\text{HPO}_4 \cdot 4\text{H}_2\text{O}$	Uranyl Phosphate
39	$\text{UO}_2\text{NH}_4\text{PO}_4 \cdot 3\text{H}_2\text{O}$	Uranyl Ammonium Phosphate
40	$\text{UO}_2\text{F}_4 \cdot \text{H}_2\text{O}$	Uranyl Fluoride Solution
41	UO_2F_2	Uranyl Fluoride
42	UO_4	Uranyl Peroxide
43	$\text{U}_2(\text{P}_2\text{O}_7)$	Uranous Pyro Phosphate
44	$\text{U}_2\text{O}_2(\text{P}_2\text{O}_7)$	Uranous Oxypyro Phosphate
45	$(\text{NH}_4)_2\text{U}_2\text{O}_7$	Ammonium Diuranate
46	$\text{Na}_4\text{UO}_2(\text{CO}_3)_3$	Sodium Uranyl Carbonate
47	$\text{UO}_2\text{C}_2\text{O}_4 \cdot 3\text{H}_2\text{O}$	Uranyl Oxalate
48	UC_2	Uranium Carbide
49	UO_2Cl_2	Uranyl Chloride
50		Carbon and Alumina
51		Activated Alumina
52		Carbon
53		Soda Lime and/or Salt
54		Calcium Sulphate
55		Monasite Sand
56		ClF_3 and UF_6
57		Counting Films
58		Hydrochloric Acid Solution (HCL)
59		Nitric Acid Solution (HNO_3)
60		Sulphuric Acid Solution (H_2SO_4)
61		Hydrofluoric Acid (HF)

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<u>Suffix Code Number</u>	<u>Chemical Formula</u>	<u>Chemical Compound Name</u>
62		Miscellaneous Filter Cake
63		MFL Filter Cake
64		Laboratory Waste
65		Carbitol
66		Gunk
67		Magnesium Fluoride (Bomb Liner Material)
68		Phosphate Solution
69		Peroxide Solution
70		Iodate Solution
71		Carbonate Solution
72		Hydroxide Solution
73		Uranate Solution
74		Dichromate Solution
75		Trichlorethylene
76		Vacuum Cleaner Material (Corrosion Products)
77		Incinerator Ash
78		Filterings
79		Undissolved Filterings
80		Aluminum Oxide
81		Miscellaneous Solvents
82		Miscellaneous Solvents and/or MFL
83		Miscellaneous Solvents and/or HC
84		Sodium Fluoride

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